

Figure 1

SP 0	SP 4	C 8	C 12	C 16	C 20	C 24	C 28
R 1	SP 5	C 9	C 13	C 17	C 21	C 25	C 29
R 2	SP 6	SP 10	SP 14	SP 18	C 22	C 26	C 30
SP 3	SP 7	R 11	R 15	SP 19	C 23	C 27	C 31
C 32	SP 36	SP 40	SP 44	SP 48	C 52	C 56	C 60
C 33	C 37	C 41	C 45	C 49	C 53	C 57	C 61
C 34	C 38	C 42	C 46	C 50	C 54	C 58	C 62
C 25	C 39	C 43	C 47	C 51	C 55	C 59	C 63

Figure 2A

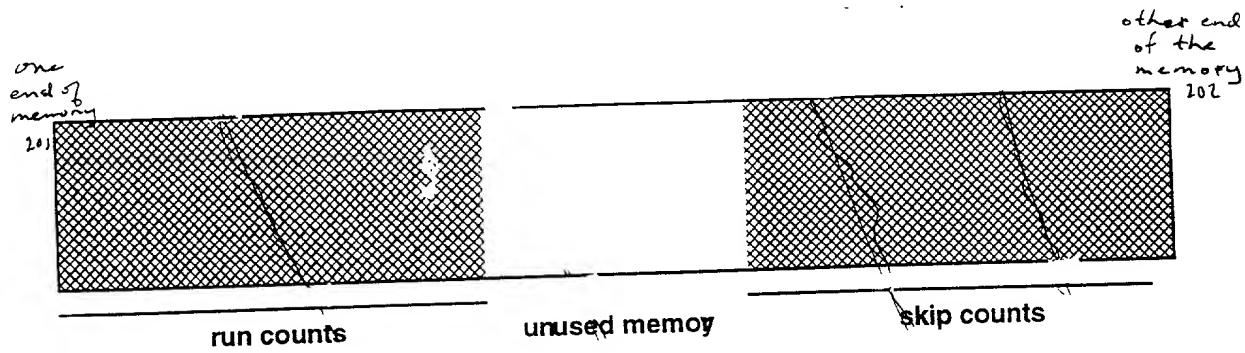


Figure 2B

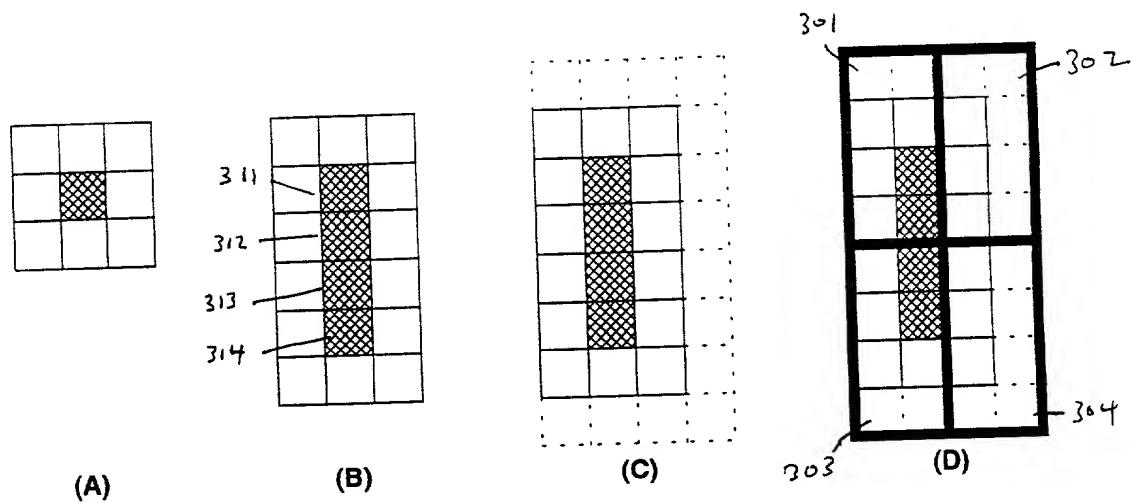
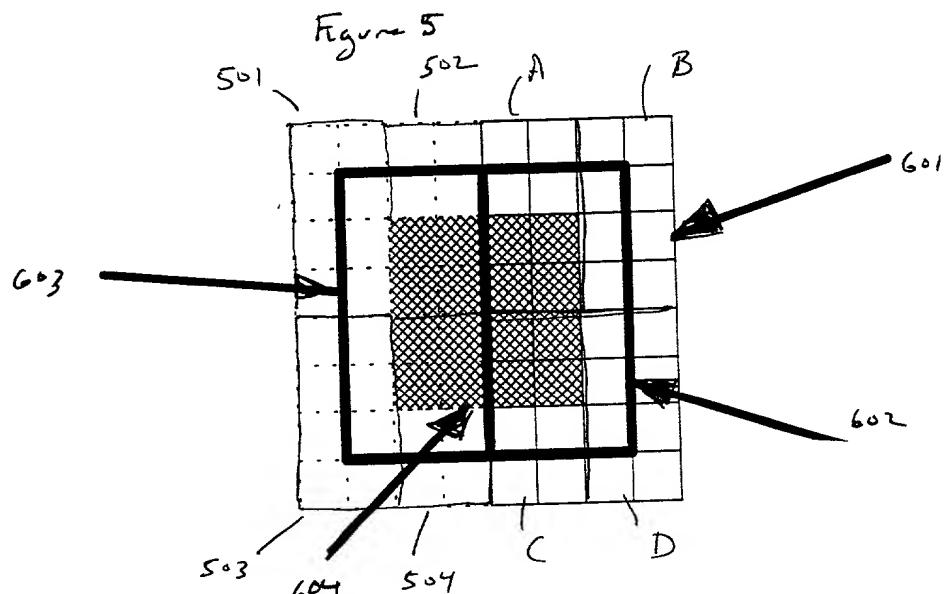
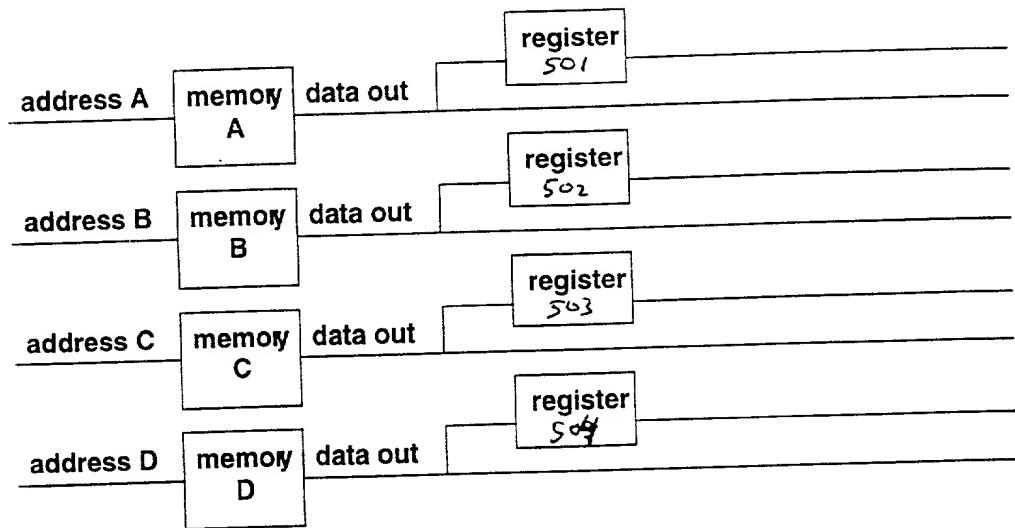


Figure 3

	0	1	2	3	4	5	6	7
0	A	B	A	B	A	B	A	B
1	C	D	C	D	C	D	C	D
2	A	B	A	B	A	B	A	B
3	C	D	C	D	C	D	C	D
4	A	B	A	B	A	B	A	B

Figure 4



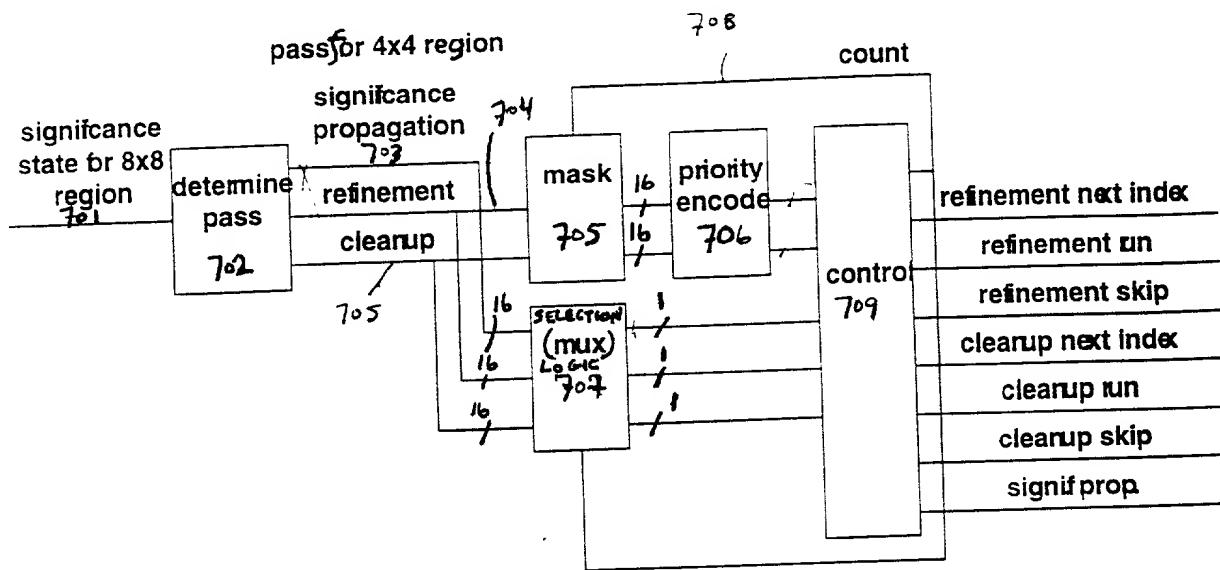


Figure 7

SP	SP	SP	SP
C	C	C	C
SP	SP	SP	SP
SP	R	R	SP

SP = significance propagation
 C = cleanup
 R = refinement

SP pass: 10*2 for SP pass coefficients
 6 for C and R pass coefficients
 C pass: 4*2 for C pass coefficients
 R pass: 2 for R pass
 total: 36 clocks = 2.25 clocks per coefficient

Figure 8

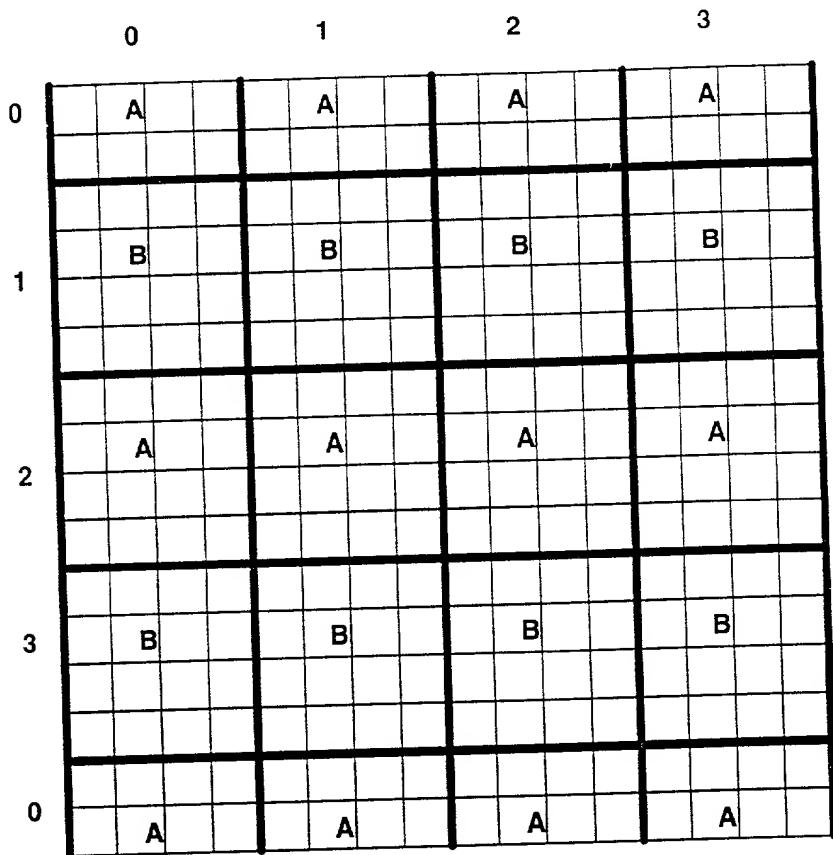


Figure 9

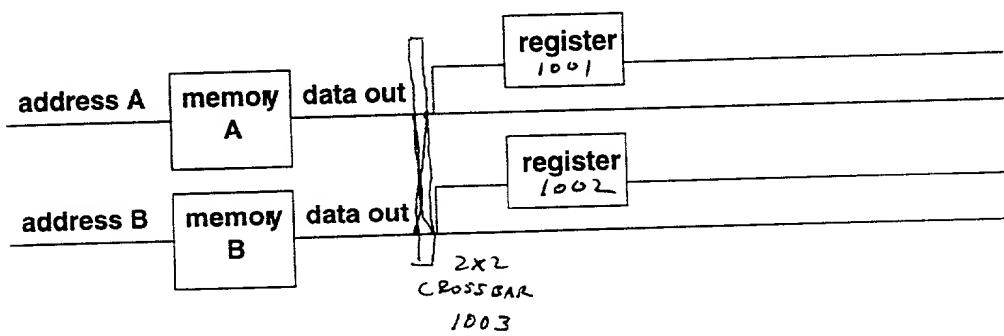


Figure 10

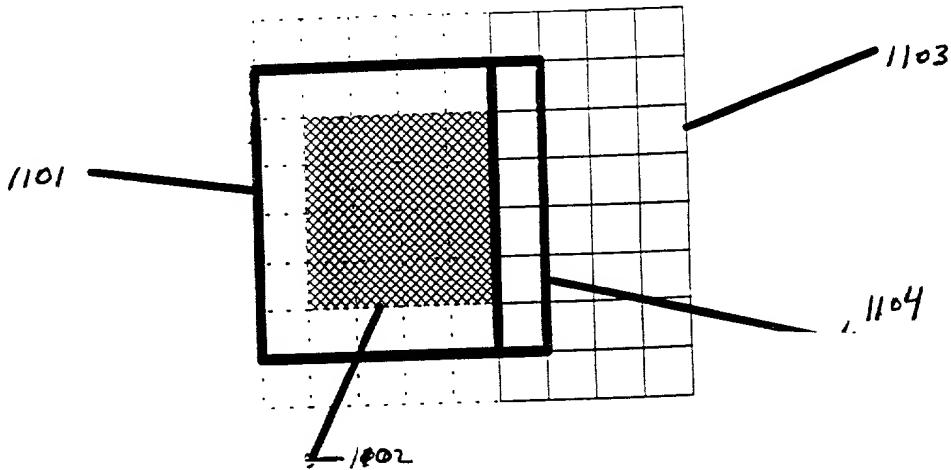


Figure 11

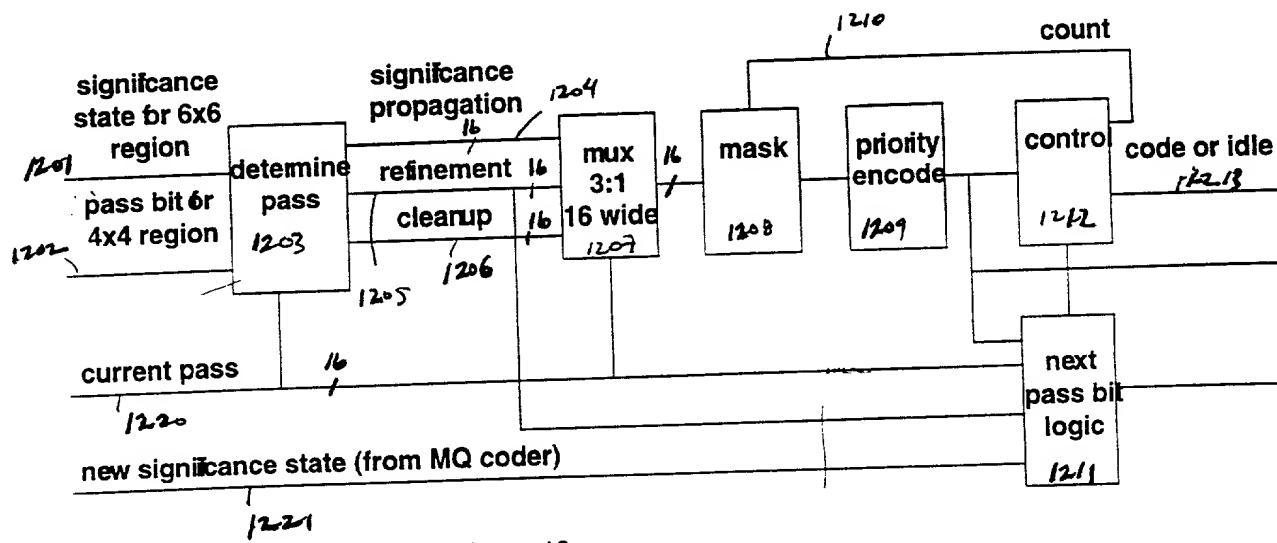


Figure 12

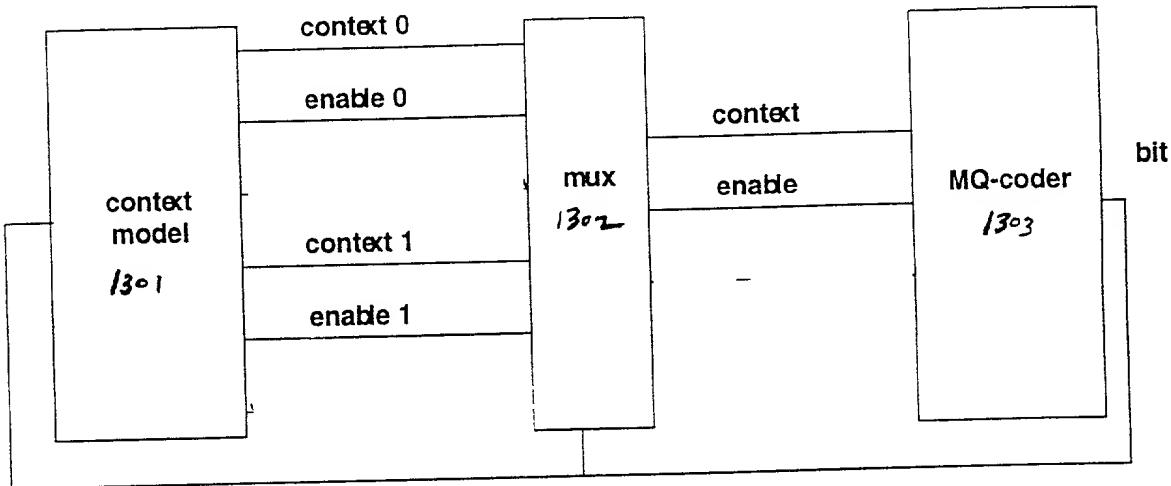


Figure 13

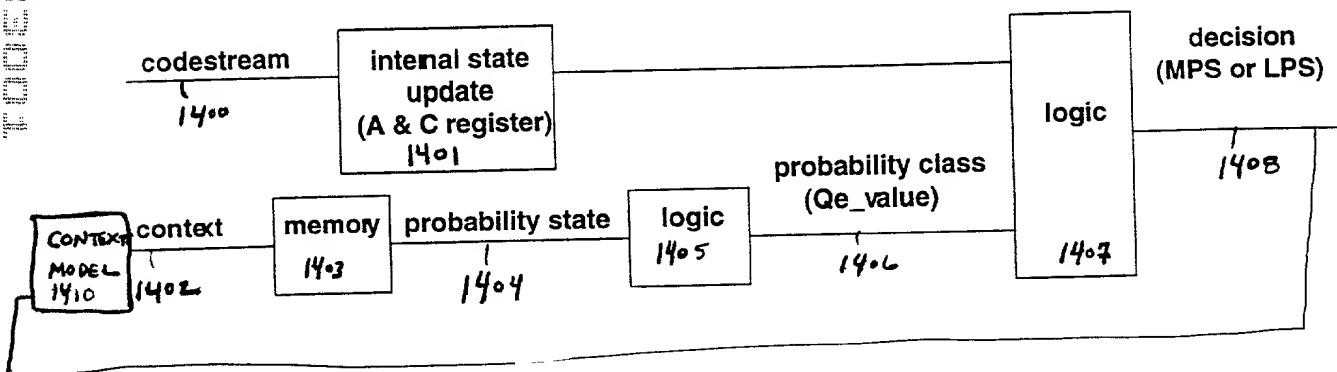


Figure 14A

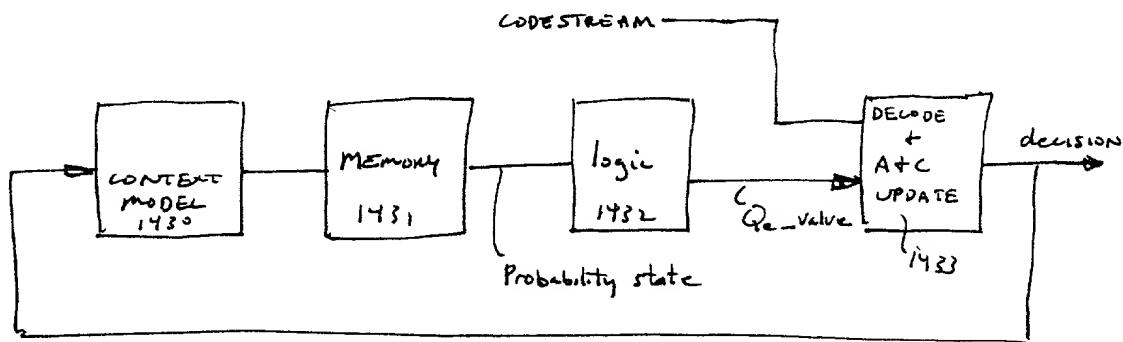


Figure 14B.

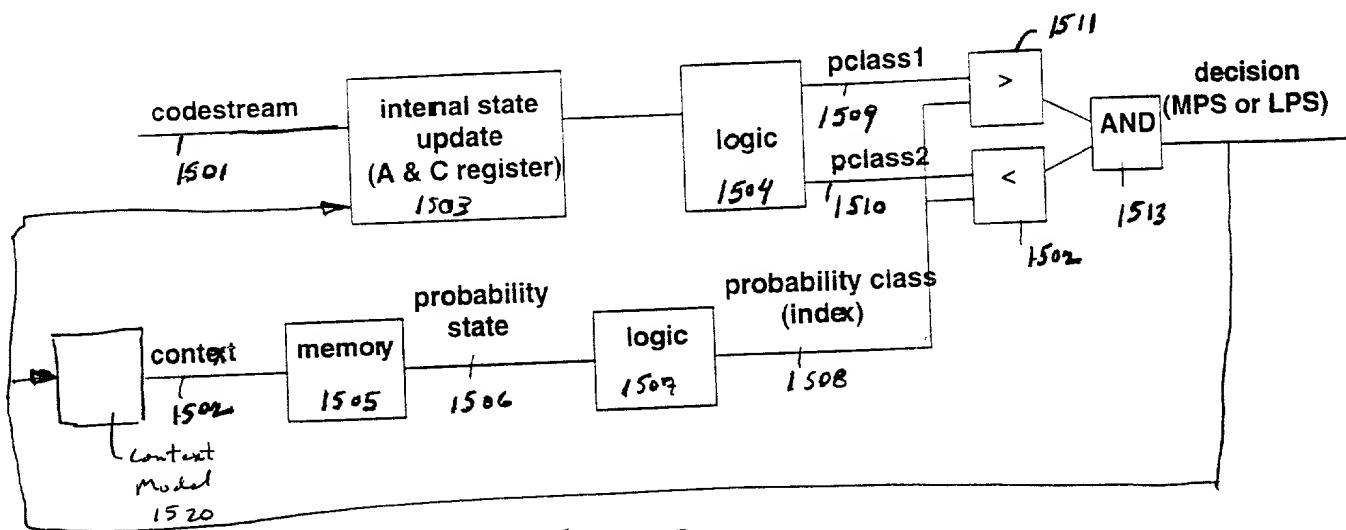


Figure 15

1500 1501 1502 1503 1504 1505 1506 1507 1508 1509 1510 1511 1512 1513

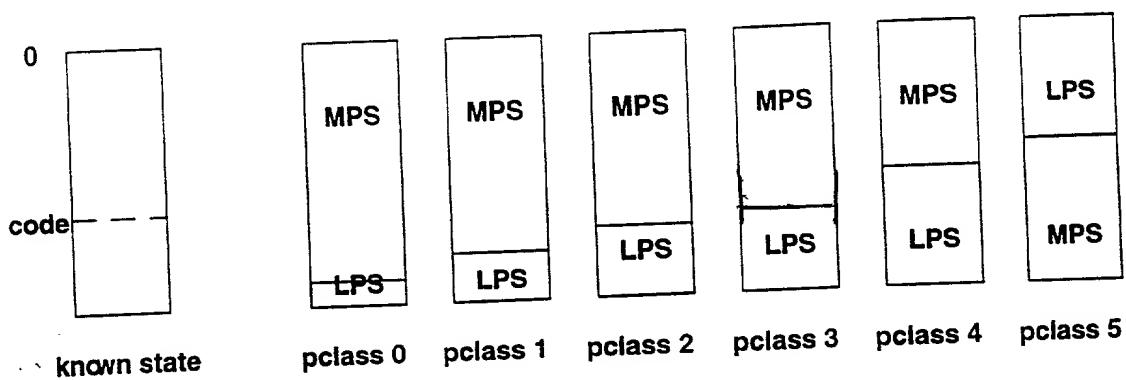


Figure 16A

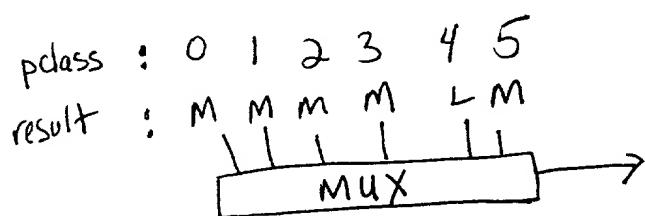
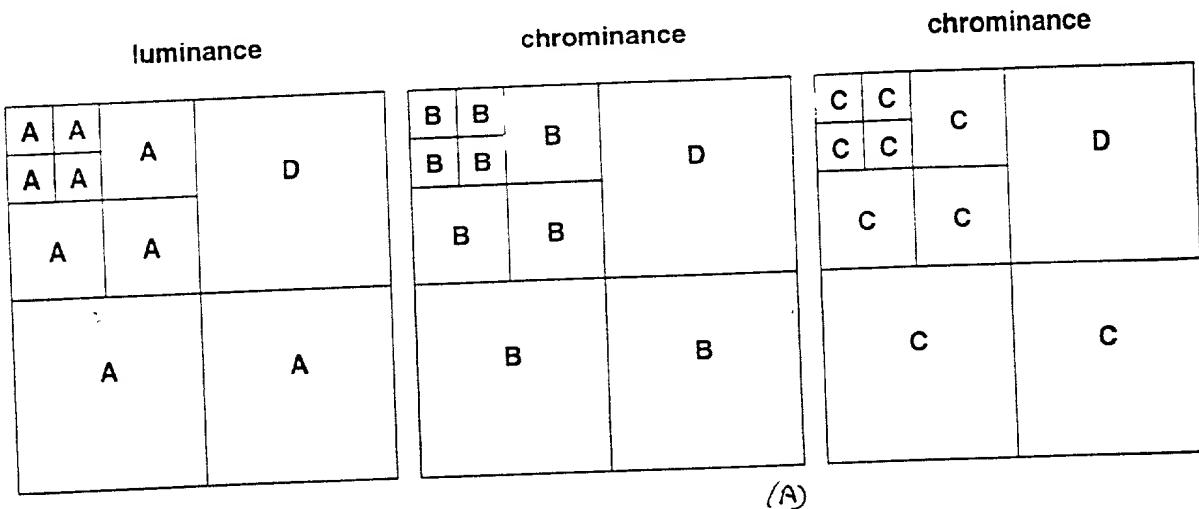


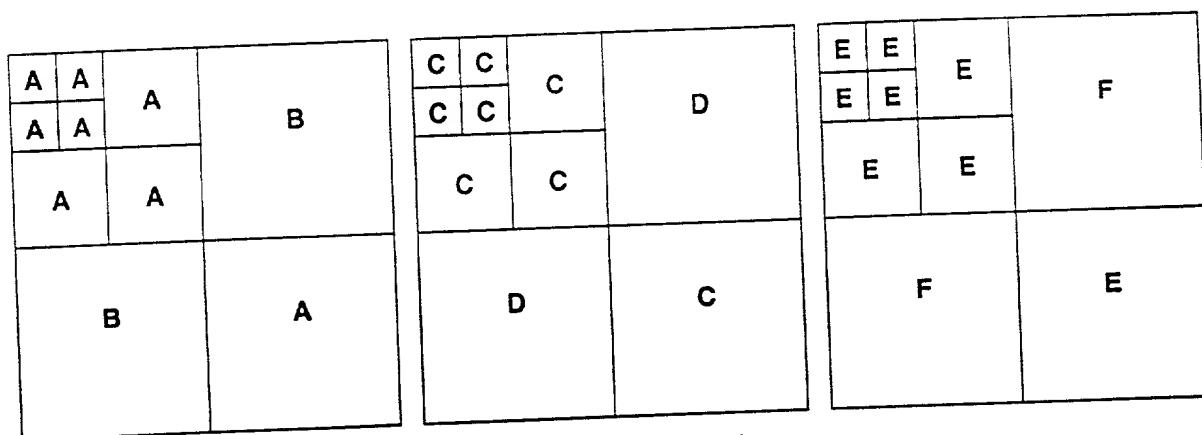
Figure 16B

5MPS
4 MPS
3 MPS
2 MPS
1 MPS
LPS

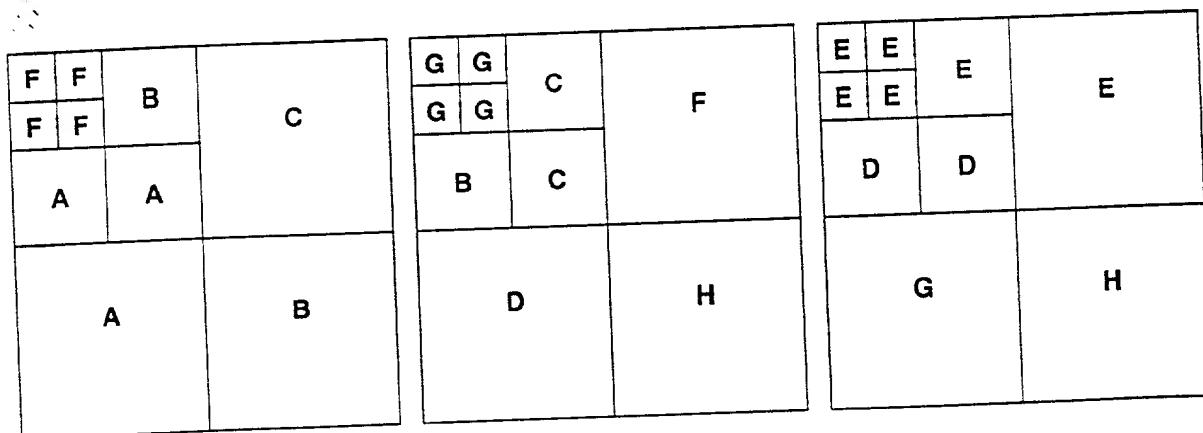
Figure 17



(A)



(B)



(c)

Figure 18

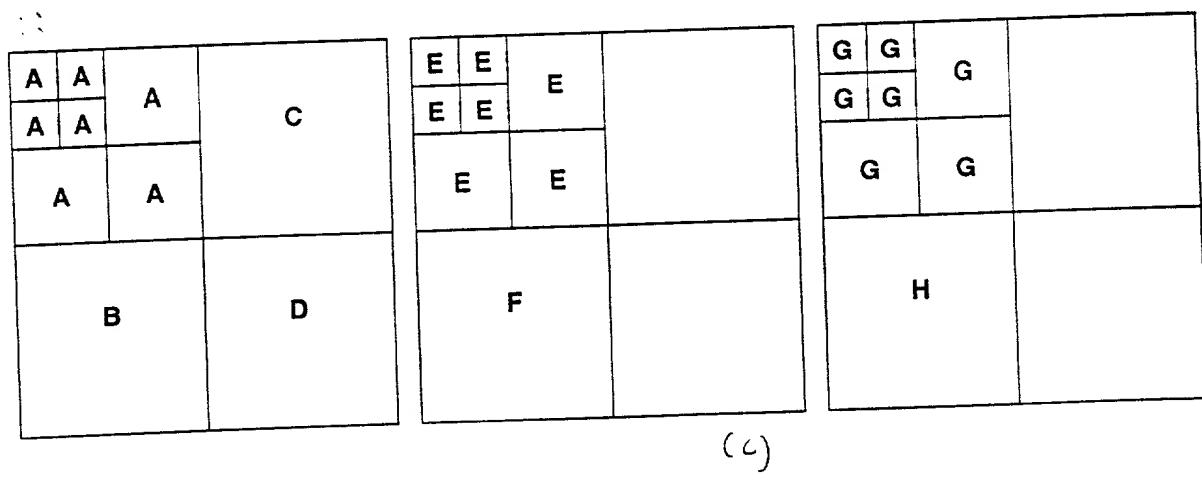
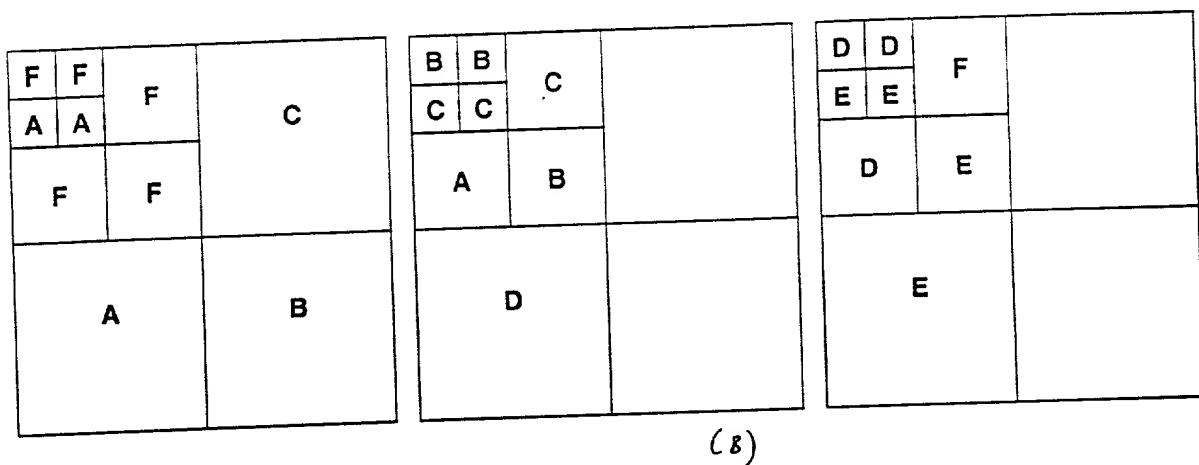
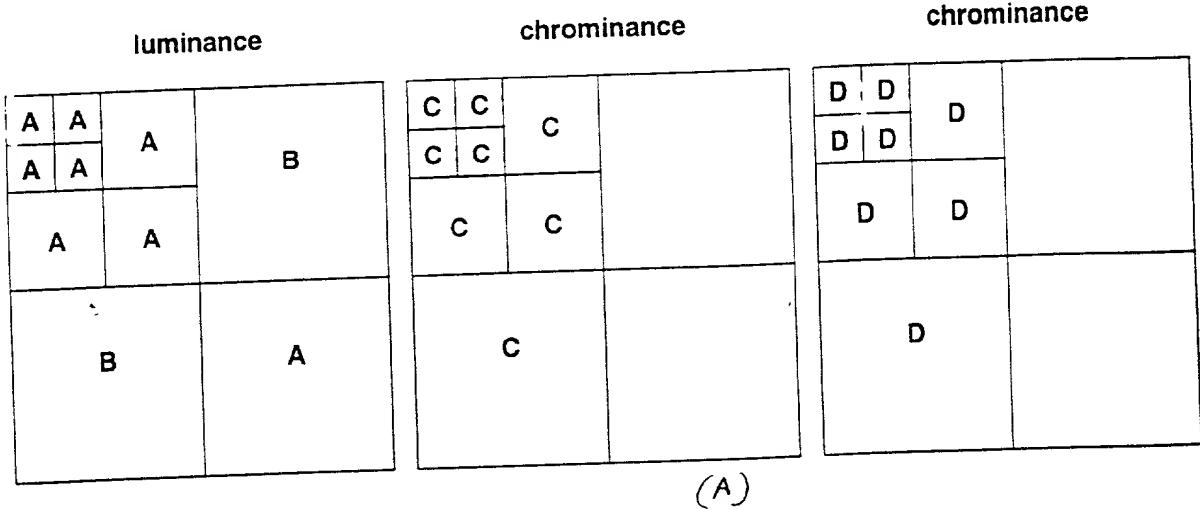


Figure 19

luminance

A	A		
A	A	D	
			C
D		A	
	A		B

chrominance

B	B	D	
B	B		
D	B		

chrominance

C	C	D	
C	C		
D	C		

(A)

1

A	A	A	C
A	A		
A	A		
B			D

E	E		
E	E	E	
E		E	

F | F

F	F	F	
F	F		
F	F		

(B)

31

A	A	H		E
A	A			
B	A			
C			D	

11

F	F	H
F	F	
B	F	

G | G

G	G	H
G	G	
B	G	

(c)

Figure 20

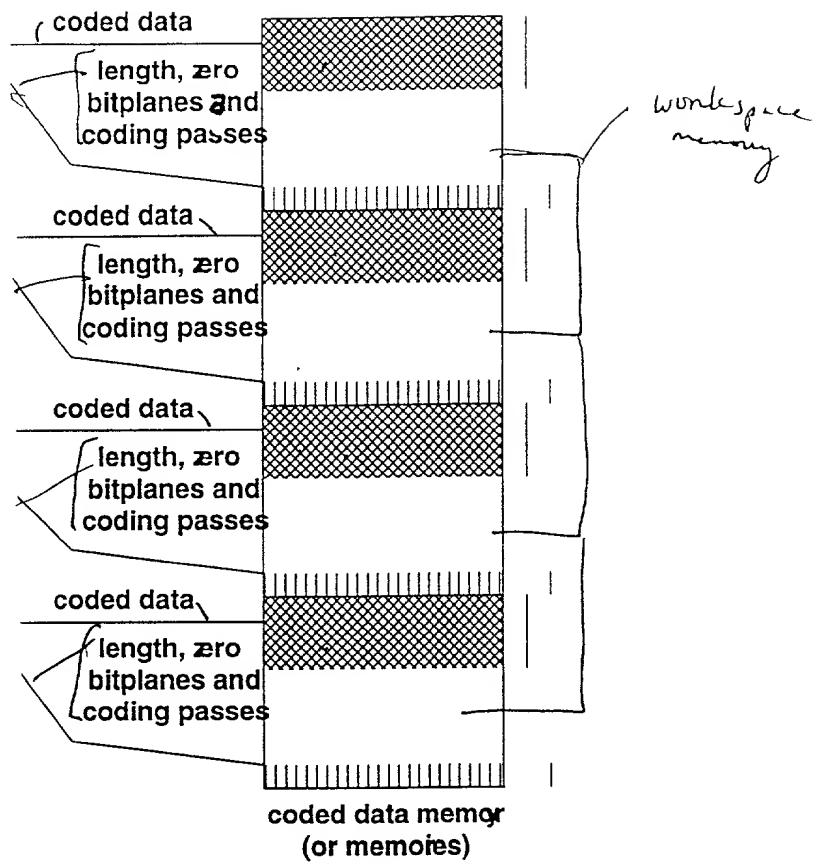


Figure 21

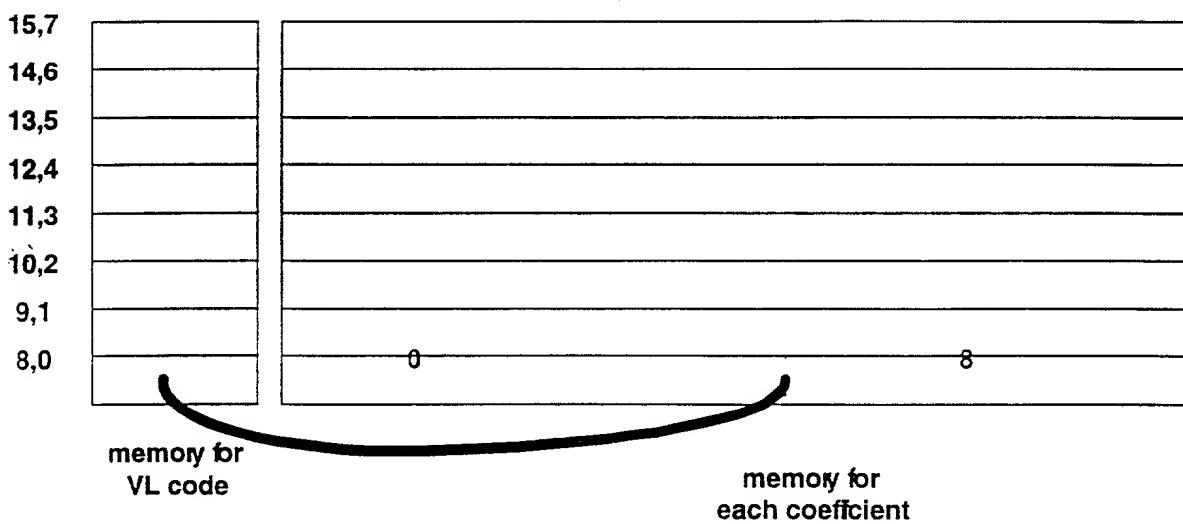
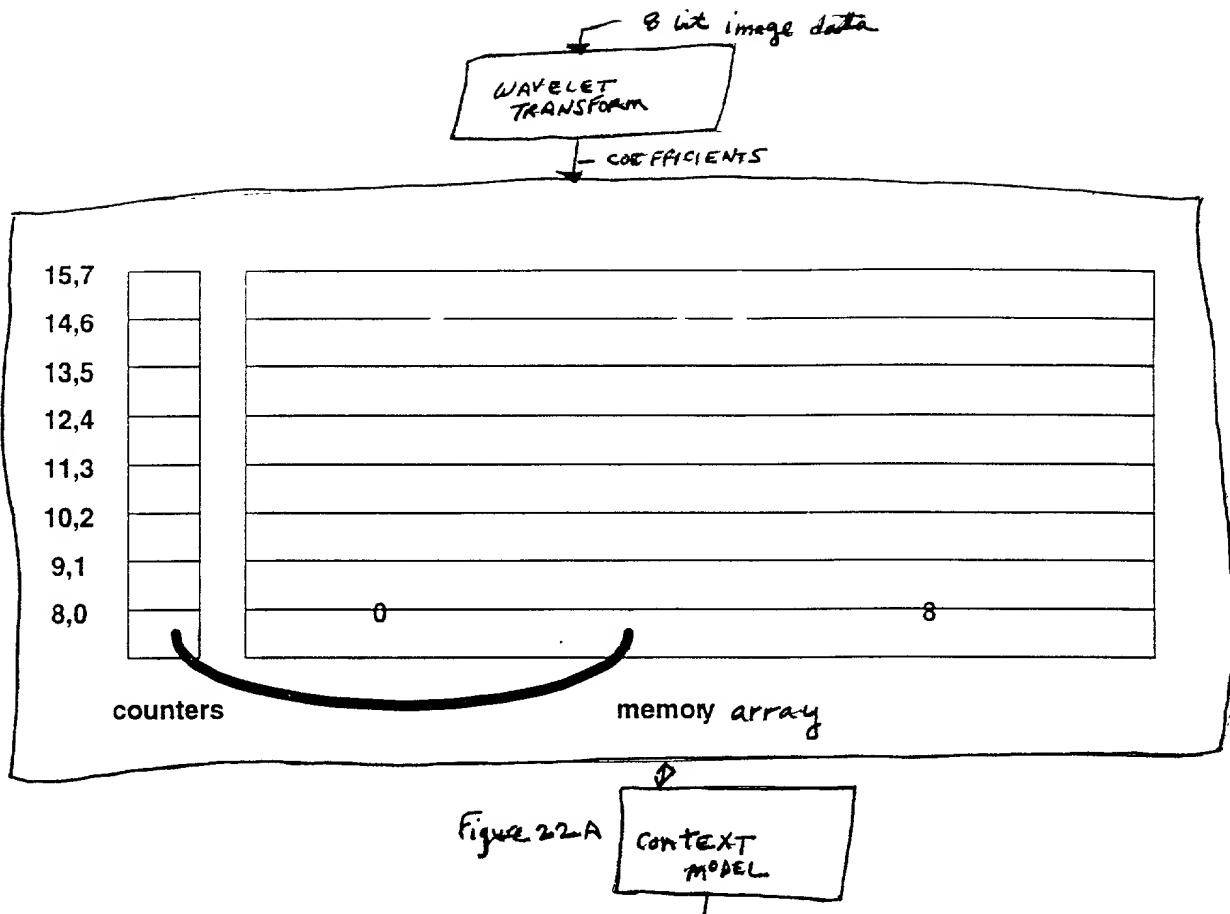


Figure 23

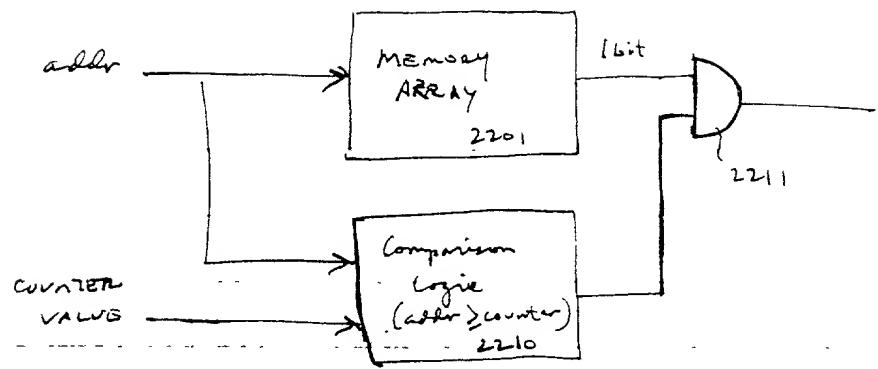


Figure 228

FIG. 24

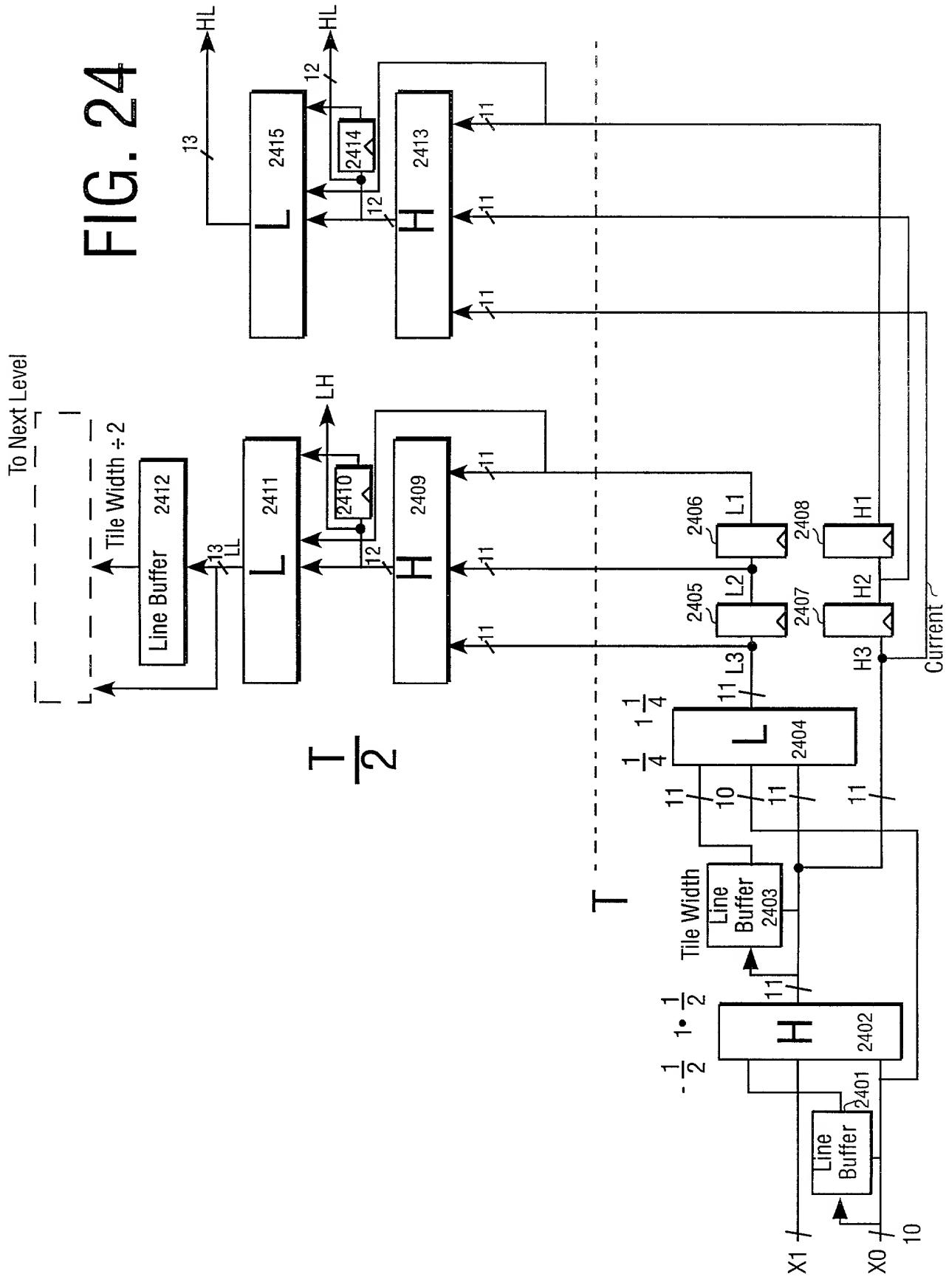


FIG. 25A

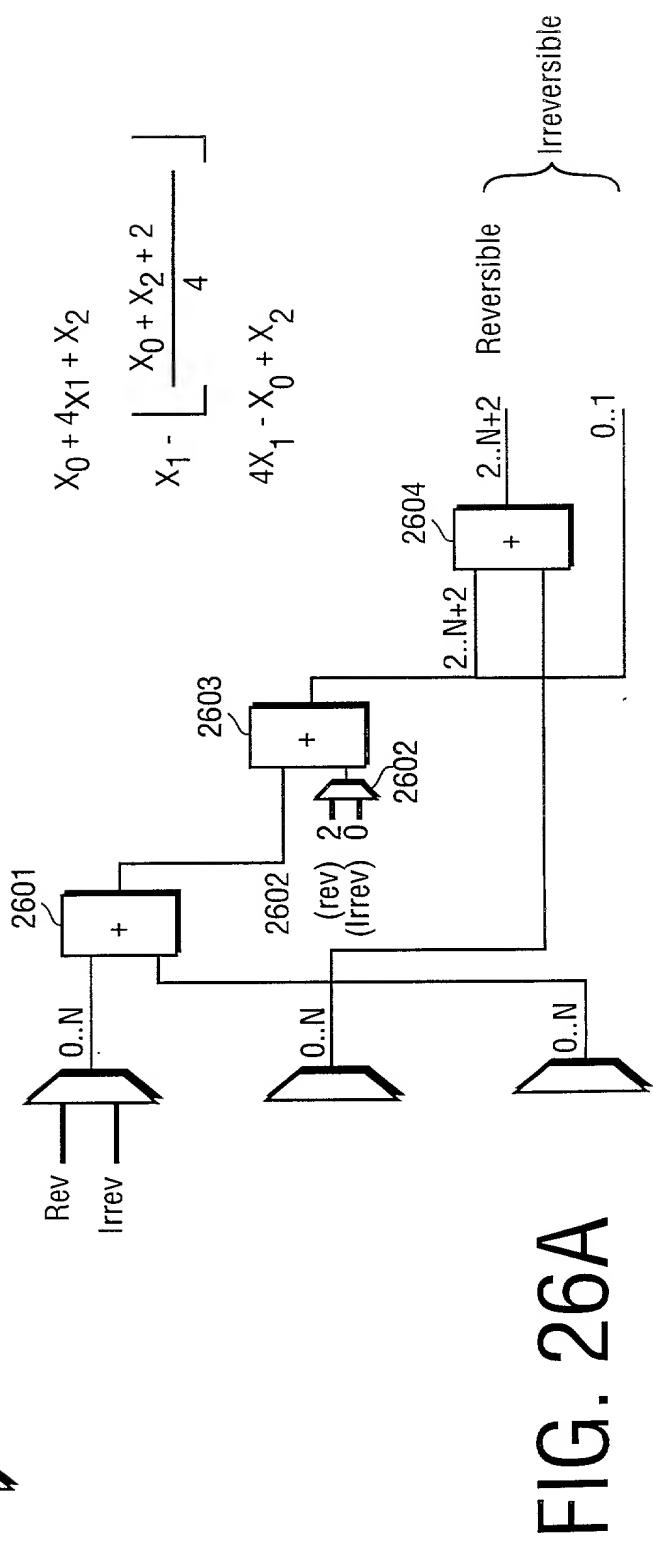
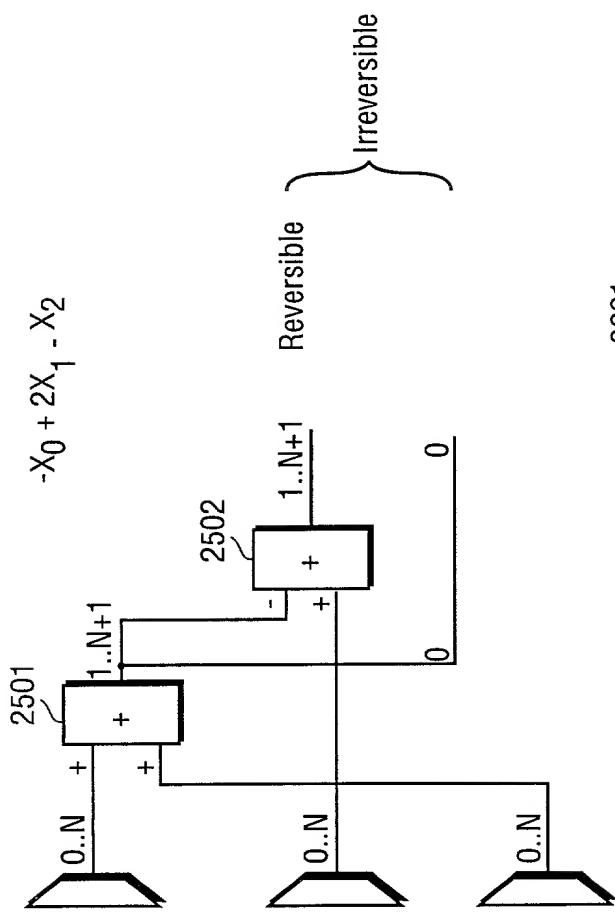


FIG. 25B

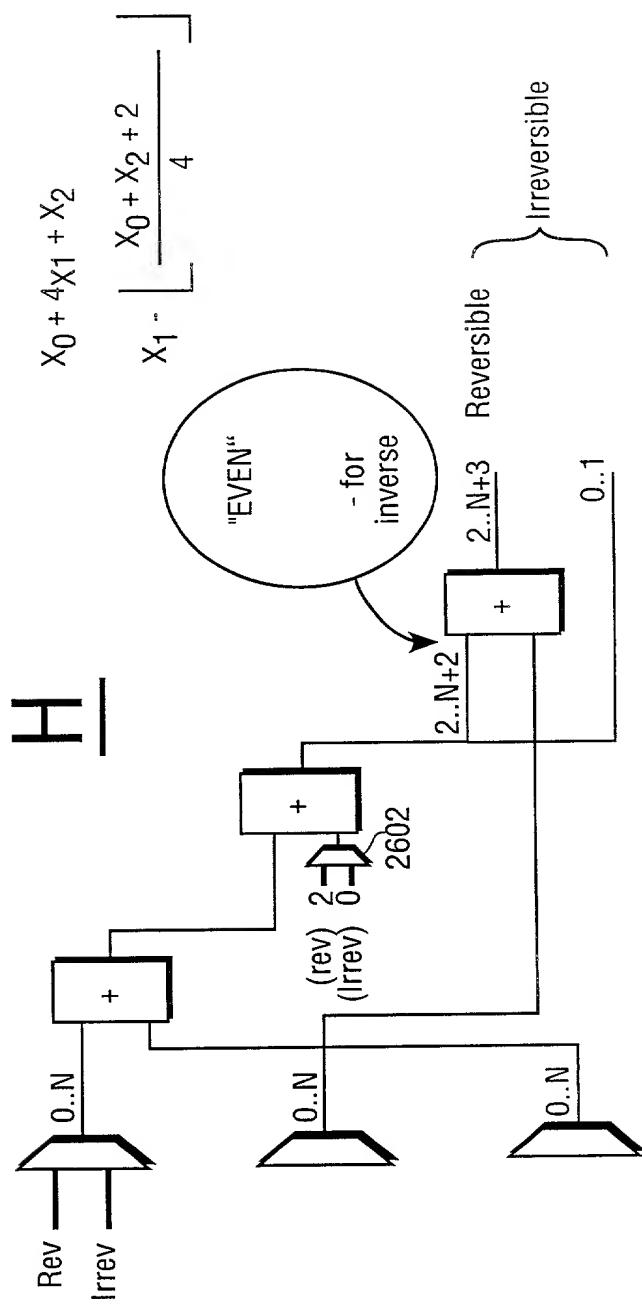
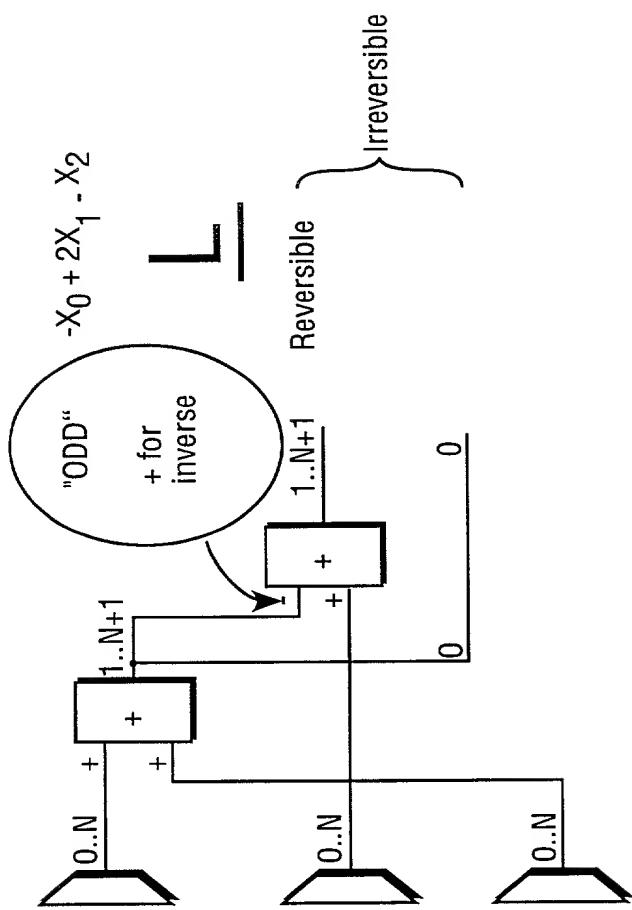
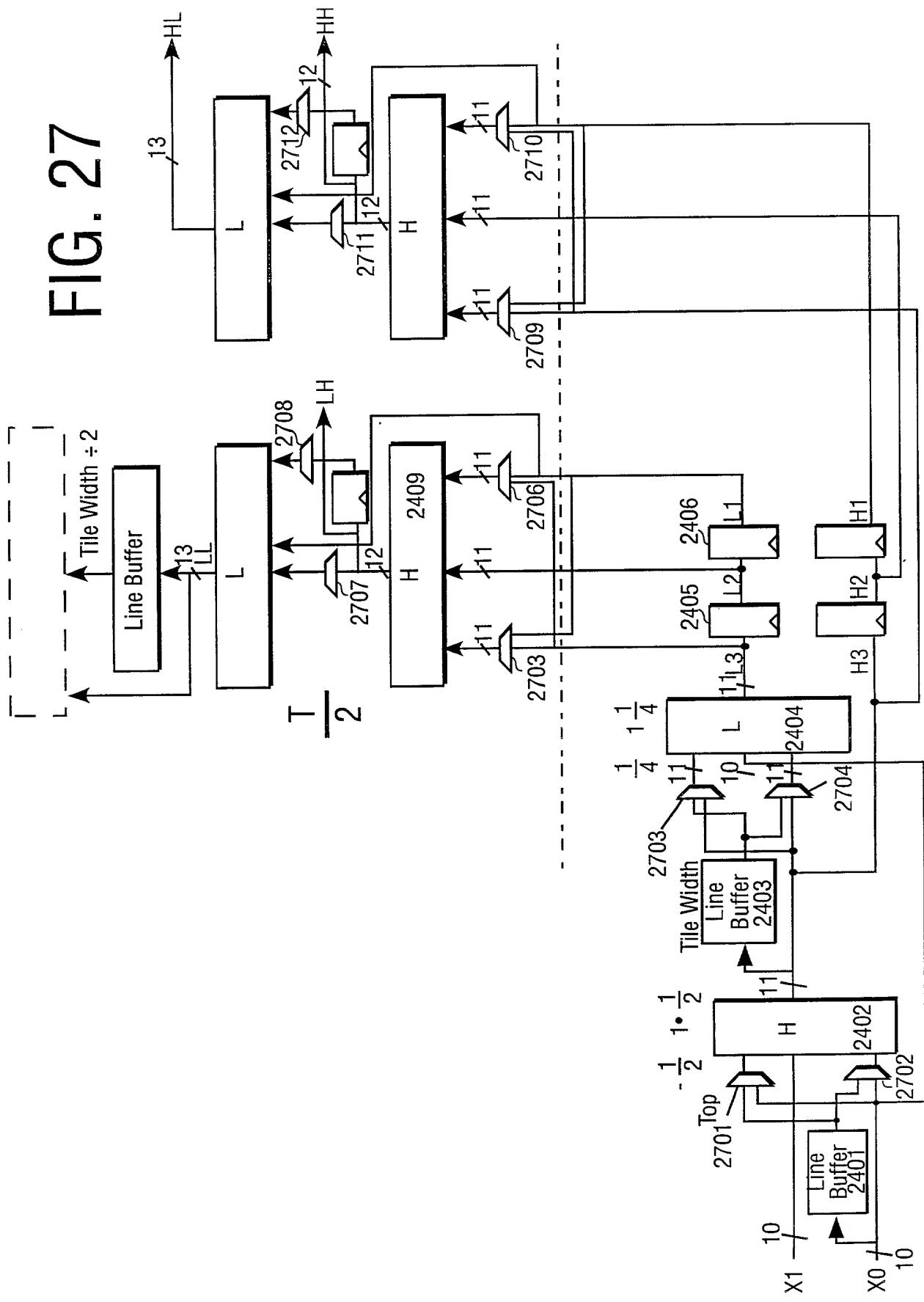


FIG. 26B

FIG. 27



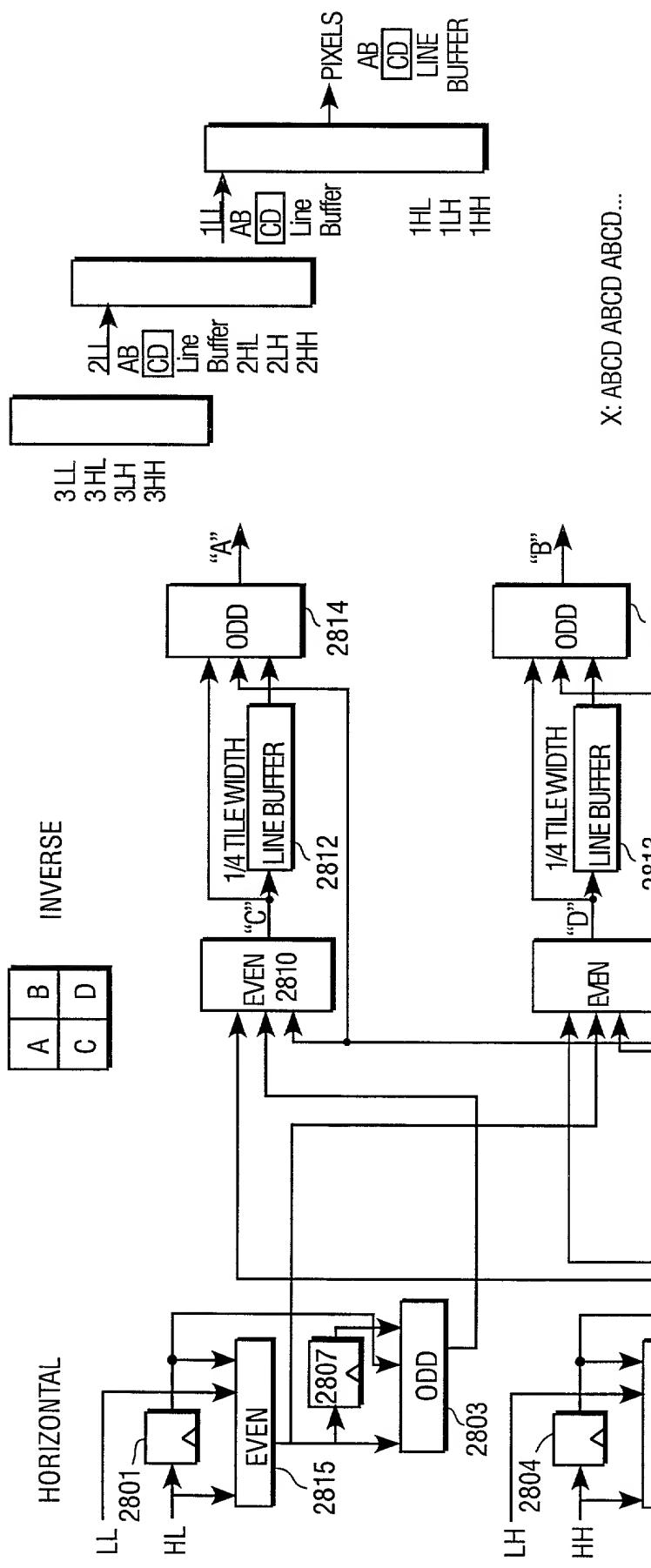


FIG. 28

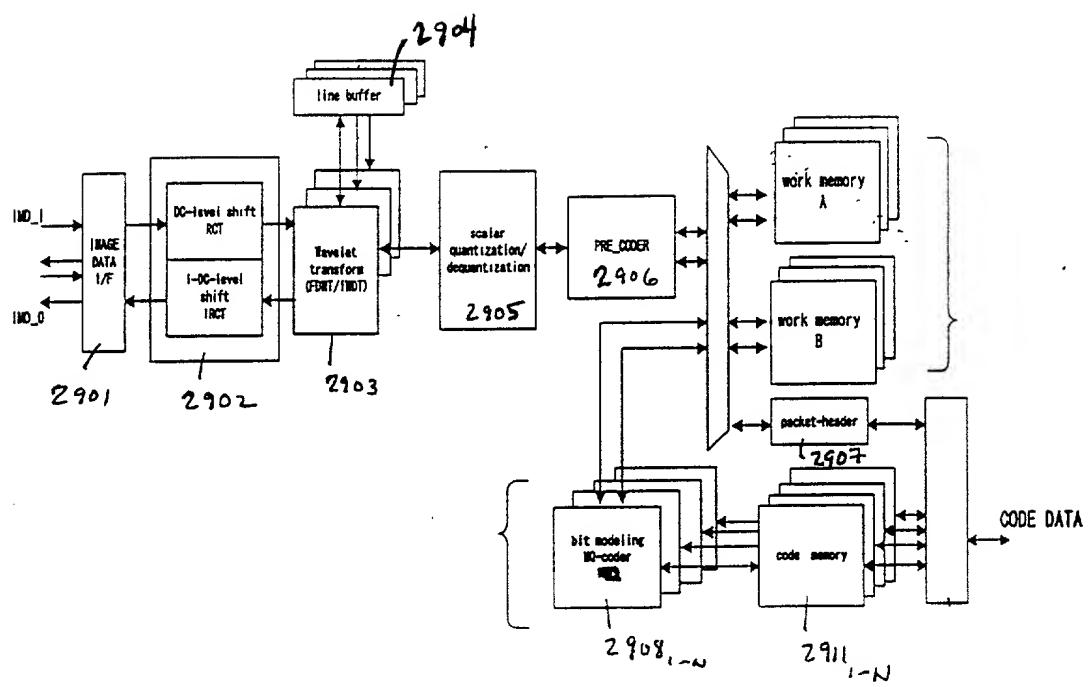


Figure 29

11	3	8	5
run	pad	skip	

Figure 30

8x8 region

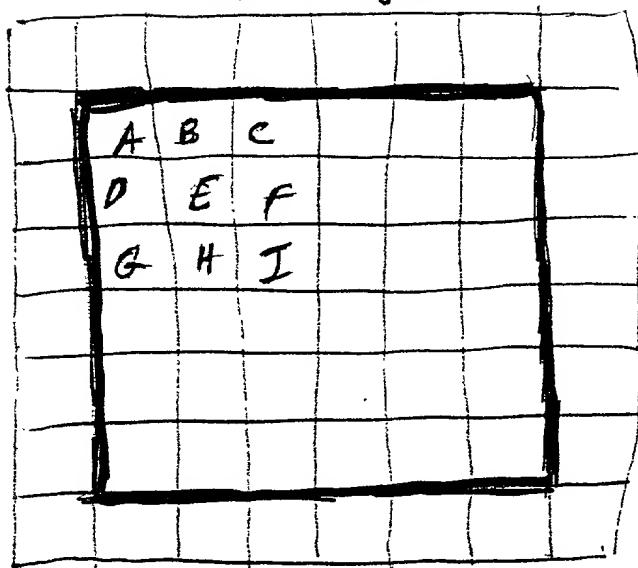


Figure 31

